BBBBBBBBBBB AAA AAA SSSSSSSS RRR	RRRRRRR TTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
----------------------------------	--

88888888 88 88 88 88 88 88 88 88 88 88 88	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	\$	000000 00 0 00 0 00 0 00 0 00 0 00 0 0
		\$	
		\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	

F 16

NN NN NN NN NN NN NNNN

NN NN NN

NN NN

NN NN

NN

NN NNNN

NNNN NN ! NN ! NN ! NN NN NN

NN

2222222

RR RR RR

RR

Page (1

MODULE BASSONECHR (
IDENT = '1-002'

! File: BASONECHR.B32

BEGIN

! .

COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED.

THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY TRANSFERRED.

THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT CORPORATION.

DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.

FACILITY: BASIC-PLUS-2 Miscellaneous I/O

ABSTRACT:

This module contains the BASIC ONECHR function.
Which causes the next sequential GET to get only one character.

ENVIRONMENT: VAX-11 User Mode

AUTHOR: John Sauter, CREATION DATE: 17-APR-1979

MODIFIED BY:

1-001 - Original. 1-002 - Set up ISB\$A\_USER\_FP. JBS 25-JUL-1979

1 ! <BLF/PAGE>

Open channel zero Load register (CB Done with register (CB Signal fatal I/O error

Page

BASSONE CHR 1-002	I 16 16-Sep-1984 00:51:55 VAX-11 Bliss- 14-Sep-1984 11:55:24 [BASRTL.SRC]B	32 V4.0-742 Page 3 ASONECHR.B32;1 (2)
: 107 : 108 : 109 : 110 : 111	0934 1 !+ 0935 1 The following are the error codes used in this module. 0936 1 !- 0937 1	
1112	0938 1 EXTERNAL LITERAL 0939 1 BAS\$K_IO_CHANOT : UNSIGNED (8); ! Channel not open. 0940 1	

IF (.CHAN EQL 0)

THEN

Page

(3)

```
K 16
16-Sep-1984 00:51:55
14-Sep-1984 11:55:24
BASSONECHR
1-002
                                                                                                                           VAX-11 Bliss-32 V4.0-742
EBASRTL.SRCJBASONECHR.B32:1
                                                                                                                                                                             Page
                       0998
0999
1000
1001
1002
1003
1004
1006
1007
1008
1009
1010
                                             BEGIN
The user is referencing his controlling terminal.
                                             BAS$$CB_PUSH (LUB$K_LUN_INPU, LUB$K_ILUN_MIN);
CCB_CISB$A_USER_FP] = .FMP_C$F$L_SAVE_FPJ;
                                  ! If the controlling terminal is not yet open, open it.
                                             IF ( NOT .CCB [LUB$V_OPENED]) THEN BAS$$OPEN_ZERO (.FMP [SF$L_SAVE_FP]);
                                             END
                       1011
                                       ELSE
                       1012
                                             BEGIN
                       1014
1015
1016
1017
1018
1019
                                    This is an ordinary channel.
                                             BAS$$CB_PUSH (.CHAN, LUB$K_LUN_MIN);
CCB [ISB$A_USER_FP] = .FMP [SF$L_SAVE_FP];
                                             END:
                       1020
1021
1022
1023
1024
1025
1026
                                    If the channel is not now open, either there is a problem with
                                    the OPEN code, or the non-zero channel was not first opened.
                                       IF ( NOT .CCB [LUB$V_OPENED]) THEN BAS$$STOP_IO (BAS$K_IO_CHANOT);
                                    Now set the ONECHR bit, which will cause the record level code
                                    to tell RMS to stop after a single character.
                       1031
1032
1033
                                       CCB [LUB$V_ONECHR] = 1;
                                    We are done with register CCB.
                       1034
1035
1036
1037
                                       BAS$$CB_POP ();
RETURN (SS$_NORMAL);
                                       END:
                                                                                                     ! end of BASSONECHR
                                                                                                       .TITLE
                                                                                                                  BASSONECHR
                                                                                                                  BASSSOPEN ZERO, BASSSCB PUSH
BASSSCB POP, BASSSSTOP TO
                                                                                                       .EXTRN
                                                                                                        .EXTRN
                                                                                                                  BASSK_IO_CHANOT
                                                                                                       .EXTRN
                                                                                                                  _BAS$CODE,NOWRT, SHR, PIC,2
                                                                                                                  BASSONECHR, Save R2,R3,R4,R11
BASSSCB_PUSH, R4
FP, FMP
CHAN
                                                                                   00000
00002
00009
0000C
                                                                             081C
9E
00
05
12
CE
                                                                                                                                                                                  0941
                                                                                                        .ENTRY
                                                          00000000G
                                                                                                       MOVAB
                                                                                                       MOVL
                                                                                                                                                                                  0991
                                                                   04
                                                                                                       TSTL
                                                                                                                                                                                  0996
                                                                                                       BNEQ
                                                       50
                                                                                                                  #8, RO
                                                                                                       MNEGL
                                                                                                                                                                                  1002
```

BASSONE CHR 1-002				L 16 16-Sep-1 14-Sep-1	984 00:51:5 984 11:55:2	VAX-11 Bliss-32 V4.0-742 EBASRTL.SRCJBASONECHR.B32;1	Page 6
; Routine Size: 90 bytes,	FF4C 2 00000000G 0 FF4C 0 0000000G 0 A0 A 5	B OC FC OC	A3 D0 0 AB E8 0 O1 FB 0 OE 11 0 AC D0 0	0014 0017 00019 00016 00025 00026 00027 00035 00037 00037 00037 00045 00045 00045 00050	CLRL R MOVL C JSB B MOVL 1	7. R2 A\$\$\$CB_PUSH 2(FMP), -180(CCB) 4(CCB), 3\$ 2(FMP) 1. BAS\$\$OPEN_ZERO  S OHAN, R2 AS\$\$CB_PUSH 2(FMP), -180(CCB) 4(CCB), 3\$ BAS\$\$K_IO_CHANOT, -(SP) 1. BAS\$\$STOP_IO 296(CCB) BAS\$\$CB_POP 1. R0	1003 1008 0996 1016 1017 1025 1031 1035 1036 1037
: 212 1038 1 : 213 1039 1 END : 214 1040 1 : 215 1041 0 ELUI					! end of mo	dule BAS\$ONECHR	
: Name	P Bytes	SECT SUMMARY		Attribute			
BAS\$CODE		O NOVEC, NOW	RT, RD			L, CON, PIC, ALIGN(2)	
: : : : :	Library	Statistics  Total	- Symbols	Percent	Pages Mapped	Processing Time	
\$255\$DUA28:[SYSLIB]STAR	ET.L32;1	9776	5	0	581	00:01.2	

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$:BASONECHR/OBJ=OBJ\$:BASONECHR MSRC\$:BASONECHR/UPDATE=(ENH\$:BASONECHR

M 16 16-Sep-1984 00:51:55 14-Sep-1984 11:55:24 VAX-11 Bliss-32 V4.0-742 EBASRTL.SRCJBASONECHR.B32;1

Page (3) 0028 AH-BT13A-SE

## DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

